ABSTRACT OF THE DISCLOSURE

Unwanted dynamics in an optical switch are eliminated by calculating a set of new parameter values that shape an input command signal applied to the switch in accordance with an algorithm that randomly varies initial parameter values within certain constraints. The input command signal is applied to the mirror actuators in order to produce a response by the optical switch. A cost function value indicative of oscillations present in the response is calculated and compared to a previous cost function value. If the cost function value is less than the previous cost function value, the new parameter values are stored and designated as the initial parameter values for a next iteration. Following repeated iterative calculations to shape the input command signal, an optimal set of parameter values are produced. It is emphasized that this abstract is provided to comply with the rules requiring an abstract that will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure. It is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims. 37 CFR 1.72(b).